

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/707,722 01/07/2004		Steven H. Voldman	BUR920030097US1	1721	
30449 759	90 09/13/2005		EXAM	EXAMINER	
SCHMEISER, OLSEN + WATTS			JACKSON JI	R, JEROME	
3 LEAR JET LANE SUITE 201			ART UNIT	PAPER NUMBER	
LATHAM, NY 12110			2815		

DATE MAILED: 09/13/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office Action Cumment	10/707,722	VOLDMAN, STEVEN H.			
Office Action Summary	Examiner	Art Unit			
	Jerome Jackson Jr.	2815			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.15 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period was a failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 25 Ju	ine 2005				
2a) ☐ This action is FINAL . 2b) ☐ This					
, <u></u>	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims	•				
4)⊠ Claim(s) <u>1-20</u> is/are pending in the application.					
4a) Of the above claim(s) <u>9-16</u> is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-8 and 17-20</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/o	r election requirement.				
•	•				
Application Papers					
9) The specification is objected to by the Examine					
10) The drawing(s) filed on is/are: a) acc					
Applicant may not request that any objection to the	•	, ,			
Replacement drawing sheet(s) including the correct					
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents		e-(d) or (f).			
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the prior					
application from the International Bureau	ı (PCT Rule 17.2(a)).				
* See the attached detailed Office action for a list	of the certified copies not receive	ed.			
	•				
Attachment(s)		/DTO 440)			
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 	4) Light Interview Summary Paper No(s)/Mail Da	•			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		atent Application (PTO-152)			

Application/Control Number: 10/707,722

Art Unit: 2815

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 17-20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

There is no embodiment shown where a second layer of opposite conductivity to the first layer and over the first layer is in direct physical contact with the substrate through the opening. In other words there is no structure shown wherein the p+ anode is in direct physical contact with the substrate. The intended structure is thus vague and indefinite or at worst new matter.

Claims 17-20 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The structure of claims 17-20 is considered new matter for the reasons stated above.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-4,8 and 17-20, as far as definite, are rejected under 35 U.S.C. 102(b) as being anticipated by Canclini, of record.

Application/Control Number: 10/707,722

Art Unit: 2815

The previous rejection still applies. The new limitations in claim 1 do not structurally distinguish over Canclini as layer 3 is in direct physical contact with the substrate 2 through the "hole" in the opening between 1 and 6.

Claim 2 is rejected as the cathode 5,17 of Canclini is in direct physical contact with the first layer 6.

Claim 4 is rejected as breakdown of the diode in Canclini is a function of the "opening". No particular "function" is claimed and this functional language does not in any way structurally distinguish over the applied art which can function in the same manner. Claims 17-20 are also vague and indefinite or new matter and as in the previous rejection do not structurally distinguish over Canclini.

Claims 1-8 and 17-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Canclini in view of Russ '750.

The previous rejection with the above comments applies.

Applicant's arguments filed 6/29/05 have been fully considered but they are not persuasive. Applicant argues that Canclini does not show a layer with a "hole" because the layer is not "one piece". This argument is not convincing as there is no such language as "one piece" in the claims. Regions 1 and 6 of Canclini can be labeled or considered as a layer with a "hole" or "space" because 1 and 6 are located at the same level, doped the same, and have a space or "hole" between them. There is no specific language in the claims as "one piece" or which would unequivocally distinguish applicant's claims over the applied art.

Blanchard '289 is relevant art.

Application/Control Number: 10/707,722

Art Unit: 2815

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jerome Jackson Jr. whose telephone number is 571-272-1730. The examiner can normally be reached on M-Th.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Thomas can be reached on 571-272-1664. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2815

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

H

JEROME JACKSON PRIMARY EXAMINER